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of the Middle Jura, but the occurrence of Lias in the same region shows that Neumayr's hypothesis of a great transgression of the sea in Middle Jurassic time in the arctic region will not hold good. Marine deposits existed there even before Jurassic time, as shown by the occurrence of Upper Triassic deposits in Alaska.

J. P. S.

The Permian of Armenia.¹—The strata of Djulfa in Armenia are classic in geological literature, having long ago been assigned to the Subcarboniferous on account of the supposed occurrence of *Goniatites striatus*. But a revision of the fauna, based on a new collection made by Prof. F. Frech, shows that these beds belong to the Permian, for there is a mixture of Paleozoic and Mesozoic types. Their Paleozoic age is shown by the occurrence of typical Permian brachiopods, such as are known in Russia and India, and of the goniatite genus *Gastrioceras*, which has never been found above the Permian. On the other hand, the genera *Hungarites* and *Otoceras* are known there, which elsewhere are not found below the Trias. The evolution of *Hungarites* from the simple forms of Armenia into the complex development as known in the Trias of Siberia and India is worked out by Dr. von Arthaber in a most convincing manner, and is a good argument against useless multiplication of generic names in a phylogenic series.

J. P. S.

Notes.—Dr. Diener (*Beitr. Palaeontol. Oesterreich-Ungarns*, Bd. XIII, 1900) has continued his detailed studies of the Triassic faunas in this contribution, treating of the Muschelkalk zone of *Ceratites trinodosus*. He describes a new genus, *Arthaberites*, of the family Pinacoceratidæ, resembling *Pseudosagoceras* Diener of the Lower Trias of Siberia, and possibly descended from it. The fauna described shows a strong resemblance to that of the Bosnian Muschelkalk long since made known by the works of F. von Haner. It consists of numerous species of *Ceratites*, *Analcites*, *Celtites*, *Proarcestes*, *Joannites*, *Procladiscites*, *Megaphyllites*, *Sagoceras*, *Arthaberites*, *Pinacoceras*, *Norites*, *Monophyllites*, *Sturia*, *Gymnites*, *Ptychites*, *Nautilus*, *Orthoceras*, *Atractites*. Many of these species had not before been found in the Alps, and their discovery is of material aid in correlating the Alpine strata with those of the other Triassic provinces.

¹ Arthaber, G. von. Das jüngere Palaeozoicum aus der Araxes-Enge bei Djulfa, *Beiträge zur Palaeontologie Oesterreich-Ungarns und des Orients*, Bd. xii (1900), Nr. 4.